

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>	Docket Number: 041673/2043	Application Number: 09/620,174
	Applicant: Tuszynski, et al.	
	Filing Date: 07/19/2000	Group Art Unit: 1633

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
LDL	A1	01/21/92	5,082,670	Gage et al.			
	A2	06/25/96	5,529,774	Barba et al.			
	A3	07/22/97	5,650,148	Gage et al.			
	A4	11/04/97	5,683,695	Shen et al.			
	A5	05/26/98	5,756,312	Weiner et al.			
	A6	06/09/98	5,762,926	Gage et al.			


FOREIGN PATENT DOCUMENTS

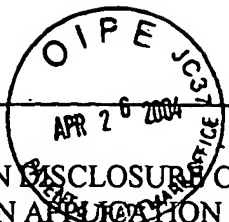
Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
LDL	A7*	06/28/90	WO 90/06757	PCT			

OTHER DOCUMENTS

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Examiner Initials	Ref. No.	Title
LDL	A8	Armelin et al., "Pituitary extracts and steroid hormones in the control of 3T3 cell growth" <u>Proc. Natl. Acad. Sci.</u> (1973) 70:2702-6.
	A9	Banerji et al., "Expression of a beta-globin gene is enhanced by remote SV40 DNA sequences" <u>Cell</u> (1981) 27:299-308.
	A10	Benoist et al., "In vivo sequence requirements of the SV40 early promoter region" <u>Nature</u> (1981) 290:304-10.
	A11	Blesch et al., "Ex vivo gene therapy for Alzheimer's disease and spinal cord injury" <u>Clinical Neuroscience</u> (1996) 3:268-274.
	A12	Borsani et al., "cDNA sequence of human beta-NGF" <u>Nucleic Acids Res.</u> (1990) 18:4020.
	A13	Breathnach et al., "Organization and expression of eucaryotic split genes coding for proteins" <u>Ann. Rev. Biochem.</u> (1981) 50:349-83.
	A14	Chen et al., "Calcium phosphate-mediated gene transfer: a highly efficient transfection system for stably transforming cells with plasmid DNA" <u>BioTechniques</u> (1988) 6:632-8.
	A15	Chen et al., "High-efficiency transformation of mammalian cells by plasmid DNA" <u>Mol. Cell. Biol.</u> (1987) 7:2745-52.
	A16	Chua et al., "Tumor necrosis factor-alpha induces mRNA for collagenase and TIMP in human skin fibroblasts" <u>Connect. Tissue Res.</u> (1990) 25:161-170.
	A17	Conner et al., "Distribution of NGF delivered into the rat CNS by either grafted NGF-secreting fibroblasts, intraparenchymal (IP) injections, or IP-infusions" <u>Society for Neuroscience</u> (1997) 23:53 Abstract 29.5.

EXAMINER: 	DATE CONSIDERED: 12/15/04 1/18/05
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LDL	A18*	Corden et al., "Promoter sequences of eukaryotic protein-coding genes." <u>Science</u> (1980) 209:1406-14.
	A19*	DePamphilis et al., "Microinjecting DNA into mouse ova to study DNA replication and gene expression and to produce transgenic animals" <u>BioTechniques</u> (1988) 6:662-80.
	A20*	de Wet et al., "The mRNAs for the pro-alpha 1(I) and pro-alpha 2(I) chains of type I procollagen are translated at the same rate in normal human fibroblasts and in fibroblasts from two variants of osteogenesis imperfecta with altered steady state ratios of the two mRNAs" <u>J. Biol. Chem.</u> (1983) 258:14385-9.
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	A22*	Felgner et al., "Cationic liposome mediated transfection" <u>Proc. West. Pharmacol. Soc.</u> (1989) 32:115-21.
	A23*	Felgner et al., "Cationic liposome mediated transfection" <u>Focus</u> . (1989) 11:21-25.
	A24*	Felgner et al., "Lipofection: a highly efficient, lipid-mediated DNA-transfection procedure" <u>Proc. Natl. Acad. Sci.</u> (1987) 84:7413-7.
	A25*	Fraley et al., "New generation liposomes: the engineering of an efficient vehicle for intracellular delivery of nucleic acids" <u>Trends Biochem. Sci.</u> (1981) 6:77-80.
	A26*	Fromm et al., "Deletion mapping of DNA regions required for SV40 early region promoter function in vivo" <u>J. Mol. Appl. Genet.</u> (1982) 1:457-81.
	A27*	Gruss et al., "Simian virus 40 tandem repeated sequences as an element of the early promoter" <u>Proc. Natl. Acad. Sci.</u> (1981) 78:943-7.
	A28*	Hefti et al., "Nerve growth factor and Alzheimer's disease" <u>Ann. Neurol.</u> (1986) 20:275-81.
	A29*	Higgins et al., "NGF receptor gene expression is decreased in the nucleus basalis in Alzheimer's disease" <u>Exp. Neurol.</u> (1989) 106:222-36.
	A30*	Horellou et al., "Adenovirus-mediated gene transfer to the central nervous system for Parkinson's Disease" <u>Experimental Neurobiology</u> (1997) 144:131-8.
	A31*	Jolly et al., "Elements in the long terminal repeat of murine retroviruses enhance stable transformation by thymidine kinase gene" <u>Nucleic Acids Res.</u> (1983) 11:1855-1872.
	A32*	Kobayashi et al., "Morphometric study on the CHS of the nucleus basalis of Meynert in Alzheimer's disease" <u>Mol. Chem. Neuropathol.</u> (1991) 15:193-206.
	A33*	Kordower et al., "The aged monkey basal forebrain: Rescue and sprouting of axotomized basal forebrain neurons after grafts of encapsulated cells secreting human nerve growth factor" <u>Proc. Natl. Acad. Sci.</u> (1994) 91:10898-10902.
	A34*	Lehericy et al., "Heterogeneity and selectivity of the degeneration of cholinergic neurons in the basal forebrain of patients with Alzheimer's disease" <u>J. Comp. Neurol.</u> (1993) 330:15-31.
	A35*	Levivier et al., "Intrastriatal implantation of fibroblasts genetically engineered to produce brain-derived neurotrophic factor prevents degeneration of dopaminergic neurons in a rat model of Parkinson's disease" <u>The Jo. Of Neuroscience</u> (1995) 15:7810-20.

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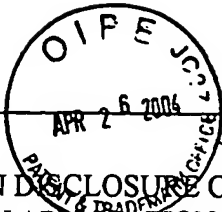
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LDL	A36*	Mannino et al., "Liposome mediated gene transfer" <u>Biotechniques</u> (1988) 6:682-90.
	A37*	Maxam et al., "Sequencing end-labeled DNA with base-specific chemical cleavages" <u>Methods in Enzymology</u> (1980) 65:499-560.
	A38*	McCutchan et al., "Enhancement of the infectivity of simian virus 40 deoxy ribonucleic acid with diethylaminoethyl-dextran" <u>J. Natl. Cancer Inst.</u> (1968) 41:351-7.
	A39*	Messing et al., "A system for shotgun DNA sequencing" <u>Nucleic Acids Res.</u> (1981) 9:309-21.
	A40*	Mesulam et al., "Cholinergic innervation of cortex by the basal forebrain: cytochemistry and cortical connections of the septal area, diagonal band nuclei, nucleus basalis (substantia innominata), and hypothalamus in the rhesus monkey." <u>J. Comp. Neurol.</u> (1983) 214:170-197.
	A41*	Moreau et al., "The SV40 72 base repair repeat has a striking effect on gene expression both in SV40 and other chimeric recombinants" <u>Nucleic Acids Res.</u> (1981) 9:6047-6068.
	A42*	Mufson et al., "Loss of nerve growth factor receptor-containing neurons in Alzheimer's disease: A quantitative analysis across subregions of the basal forebrain" <u>Exp. Neurol.</u> (1989) 105:221-32.
	A43*	Mufson et al., "Nerve growth factor receptor expressing human basal forebrain neurons: pathologic alterations in Alzheimer's and Parkinson's disease" <u>Prog. Clin. Biol. Res.</u> (1989) 317:401-14.
	A44*	Palmer et al., "Genetically modified skin fibroblasts persist long after transplantation but gradually inactivate introduced genes" <u>Proc. Natl. Acad. Sci.</u> (1991) 88:1330-4.
	A45*	Potter et al., "Electroporation in biology: methods, applications, and instrumentation" <u>Anal. Biochem.</u> (1988) 174:361-73.
	A46*	Prockop et al., "Heritable diseases of collagen" <u>N. Eng. J. Med.</u> (1984) 311:376-86.
	A47*	Raymon et al., "Application of ex vivo gene therapy in the treatment of Parkinson's disease" <u>Experimental Neurobiology</u> (1997) 144:82-91.
	A48*	Rossi et al., "Identification of a cell-specific transcriptional enhancer in the first intron of the mouse alpha 2 (type I) collagen gene" <u>Proc. Natl. Acad. Sci.</u> (1987) 84:5590-4.
	A49*	Schmidt et al., "Regulation of a collagen promoter by the product of viral mos oncogene" <u>Nature</u> (1985) 314:286-9.
	A50*	Seliger et al., "Gamma interferon regulates long terminal repeat-controlled oncogene expression in transformed mouse fibroblasts at the level of mRNA transcription" <u>J. Virology</u> (1988) 62:619-21.
	A51*	Seliger et al., "Tumor necrosis factor-alpha affects LTR-controlled oncogene expression in transformed mouse fibroblasts at the post-transcriptional level" <u>J. Immunol.</u> (1988) 141:2138-44.
	A52*	Shvaloff et al., "Lines of therapeutic research in Alzheimer's disease" <u>Psychopharmacology Bulletin</u> (1996) 32:343-52..
	A53*	Smith et al., "Age-associated neuronal atrophy occurs in the primate brain and is reversible by growth factor gene therapy" <u>Proc. Natl. Acad. Sci.</u> (1999) 96:10893-8.
✓	A54*	Smith et al., "Characterization of collagen synthesized by normal and chemically transformed rat liver epithelial cell lines" <u>Biochem.</u> (1980) 19:1820-5.

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UL	A55 *	Toneguzzo et al., "Electric field-mediated DNA transfer: transient and stable gene expression in human and mouse lymphoid cells" <u>Molec. Cell. Biol.</u> (1986) 6:703-6.
	A56 *	Tuszynski et al., "Gene therapy in the adult primate brain: intraparenchymal grafts of cells genetically modified to produce nerve growth factor prevent cholinergic neuronal degeneration" <u>Gene Therapy</u> (1996) 3:305-14.
	A57 *	Tuszynski et al., "Recombinant human nerve growth factor infusions prevent cholinergic neuronal degeneration in the adult primate brain" <u>Ann. Neurol.</u> (1991) 30:625-36.
	A58 *	Tuszynski et al., "Somatic gene therapy for nervous system disease" <u>Ciba Foundation Symposium 196, Growth factors as drugs for neurological and sensory disorders</u> (1996) 196:85-97.
	A59 *	Tuszynski et al., "The chronically injured spinal cord exhibits responsiveness to NGF delivered locally by gene therapy" <u>Society for Neuroscience</u> (1995) 21:1562 Abstract 613.3.
	A60 *	Ullrich et al., "Human beta-nerve growth factor gene sequence highly homologous to that of a mouse" <u>Nature</u> (1983) 303:821-5.
✓	A61 *	Wolff et al., "Expression of retrovirally transduced genes in primary cultures of rat hepatocytes" <u>Proc. Natl. Acad. Sci.</u> (1987) 84:3344-8.

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Form PTO-1449 (MODIFIED)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 041673-2043	SERIAL NO. 09/620,174
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FOREIGN PATENT DOCUMENTS

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							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

CDK	A1 *	Kojima, et al., "Adenovirus-Mediated transduction with human glial cell line-derived neurotrophic factor gene prevents 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine-induced dopamine depletion in striatum of mouse brain," <i>Biochemical and Biophysical Research Communications</i> , 238:569-573 (1997)
	A2 *	Roberts, et al., "Effects of NGF-Secreting Genetically Modified Cell Grafts on Cholinergic Neuronal Morphology and Gognition in Aged Primates," <i>Soc. For Neuroscience Abstracts</i> , 21(2):613.8 (1995)
	A3 *	Yang, et al., "Gene Therapy for Central Nervous System Injury: The Use of Cationic Liposomes: An Invited Review," <i>Journal of Neurotrauma</i> , 14(5):281-297 (1997)
	A4 *	Zlokovic, et al., "Cellular and Molecular Neurosurgery: Pathways From Concept to Reality - Part II: Vector Systems and Delivery Methodologies for Gene Therapy of The Central Nervous System," <i>Neurosurgery</i> , 40(4):805-813 (1997)

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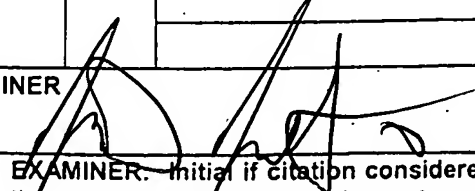
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							YES	NO

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LDL	AT*	Tuszynski, et al., "Targeted Intraparenchymal Delivery of Human NGF by Gene Transfer to the Primate Basal Forebrain for 3 Months Does Not Accelerate β -Amyloid Plaque Disposition," <i>Experimental Neurology</i> , Article No. EN986956 1-10 (1998).

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